NEWSDAY'S COMICS ON THE NEWS WITH

CHIP TRACER CYBERJOURNALIST

EPISODE 4 OF 7

CYBERSPACE BATTLE

COMPUTERS FOR GOOD OR EVIL

CREATE YOUR OWN COMIC BOOK! CUT OUT AND COLLECT!

INVENTORS' DREAMS

ABOUT 3000 B.C., ANCIENT BABYLONIANS INVENT THE FIRST COUNTING MACHINE: A CRUDE **ABACUS,** WITH STONES IN ROWS STANDING FOR ONES, TENS, HUNDREDS. LATER, THE CHINESE ABACUS USES SLIDING WOODEN BEADS.

1642: FRENCH MATHEMATICIAN BLAISE PASCAL INVENTS A MECHANICAL CALCULATOR; BY MOVING GEARS AND AXLES, HE CAN ADD 8 DIGITS! 300 YEARS LATER, COMPUTER STUDENTS LEARN A LANGUAGE CALLED 'PASCAL'!

WHILE DR. SAM TRIES TO MODIFY VYRUS' COMPUTERS, I'M OFF ON ASSIGNMENT...

I'LL TRANSFORM BY MY HOLOGRAPHIC MERGER CRYSTAL TO INTERVIEW HIM...

MR. BABBAGE, PLEASE EXPLAIN YOUR IDEAS...

SEE, I'LL PROGRAM MY MACHINE WITH PUNCH CARDS, LIKE A TEXTILE LOOM.

VERTICAL AXLES LIFT OR LOWER GEARS TO MULTIPLY OR DIVIDE 40-DIGIT NUMBERS IN MINUTES!

MANY CONSIDER ENGLISH MATHEMATICIAN CHARLES BABBAGE* (1792-1871) FATHER OF THE COMPUTER...

YET HE WORKS 40 YEARS ON HIS 'ANALYTICAL DIFFERENCE ENGINES,' BUT HAS NO MONEY TO BUILD THEM !

YEAH, CHIP -- INTERVIEW THAT OLD FOGEY WHILE I **DESTROY THE WORLD!** HA!

12

13

CHIP BITS: *BABBAGE'S MACHINE WOULD HAVE BEEN 15-FT. HIGH, 25-FT. LONG, WITH THOUSANDS OF MOVING PARTS!

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Comics on the News Team: editor: Bill Zimmerman, art director: Ned Levine, writer: Peggy Brown

ENIAC: COMPUTER BREAKTHROUGH!

1939-42: GERMAN KONRAD ZUSE AND IOWAN JOHN V. ATANASOFF INVENT ELECTRONIC MACHINES USING THE BINARY SYSTEM -- CRUCIAL TO ALL MODERN COMPUTERS. CREATED IN 1679 BY GERMAN GOTTFRIED LEIBNIZ, THE BINARY SYSTEM (LATIN FOR "TWO AT A TIME") REPRESENTS ALL NUMBERS AS 0 AND 1.

1945: PENNSYLVANIA ENGINEERS J. PRESPER ECKERT, JR., AND JOHN WILLIAM MAUCHLY BUILD **ENIAC***, THE WORLD'S FIRST SUCCESSFUL, GENERAL-PURPOSE ELECTRONIC COMPUTER!

WHILE ATANASOFF'S MACHINE CAN ADD TWO NUMBERS A SECOND, ENIAC ADDS 5,000! IT HAS 17,468 VACUUM TUBES AND 6,000 MANUAL SWITCHES.

Artist: Tom Strodberg

WHAT IS ECKERT THINKING AS HE VIEWS HIS COMPUTER? FILL IN BALLOON.

ECKERT

MAUCHLY

THE WAR DEPARTMENT, NEEDING CALCULATIONS FOR FIRING WEAPONS, PAYS FOR ENIAC -- YEARS LATER, THE MILITARY WILL START THE INTERNET!

ENIAC HELPS DESIGN A HYDROGEN BOMB.

1947: BELL TELEPHONE LAB'S FAST, TINY TRANSISTORS REPLACE VACUUM TUBES. IN 10 YEARS, JACK KILBY AND ROBERT NOYCE WILL PUT MANY TRANSISTORS ON ONE SILICON CHIP: THE INTEGRATED CIRCUIT.

I'M **SO** GLAD COMPUTERS SHRINK -- I SURE COULDN'T CARRY ENIAC AROUND!

A FURBY TOY HAS **MORE POWER** THAN ENIAC!

JUST IMAGINE -- TODAY, A **THUMBNAIL-SIZE** SILICON MICROCHIP HOLDS **22 MILLION** TRANSISTORS!

WAIT 'TIL TRACER SEES **YOU,** VYRUS, JR.!

14

15

*ENIAC: ELECTRONIC NUMERICAL INTEGRATOR AND COMPUTER. IT'S HUGE: 30 TONS, 8-FT. HIGH, 80-FT. LONG.

CHECK OUT NEWSDAY'S WEB SITE FOR MORE ON THE FUTURE OF COMPUTERS: **future.newsday.com**

Photo: AP

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NEXT SUNDAY: COMPUTER TITANS!

NEWSDAY'S COMICS ON THE NEWS WITH

CHIP TRACER® CYBERJOURNALIST

RACING FOR GREATNESS
THE WOMEN'S SPORTS REVOLUTION

EPISODE 5 OF 9, OUR STORY SO FAR: TIME-TRAVELING THROUGH CYBERSPACE TO THE 1920s, CHIP USES HER **HOLOGRAPHIC MERGER CRYSTAL** TO INTERVIEW THE GREAT ATHLETIC PHENOMENON MILDRED "BABE" DIDRIKSON, STAR OF TRACK AND FIELD, BASEBALL, FOOTBALL, GOLF... **VYRUS** SHOWS UP, TOO, TO SPREAD RUMORS ABOUT BABE...

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CHIP RETURNS FROM CYBERSPACE TO THE NEWSEUM TO CONTINUE HER PHOTO RESEARCH...

THE 40's: THE ALL-AMERICAN GIRLS PROFESSIONAL BASEBALL LEAGUE DRAWS A MILLION FANS.

WOMEN ATHLETES-- **BAH! WHO CARES, CHIP?**

VYRUS, CRAWL BACK TO YOUR HOLE!

NOW, **HERE'S** SOMETHING INTERESTING --

IN THE 1948 OLYMPICS, GREAT DUTCH ATHLETE **FANNY BLANKERS-KOEN,** 30, WINS 4 GOLD TRACK AND FIELD MEDALS...

...DESPITE CRITICISMS OVER LEAVING HER CHILDREN HOME TO **"RUN IN SHORT PANTS"!**

1948 OLYMPICS: FANNY BLANKERS-KOEN

I ALWAYS WANTED TO BE SOMEBODY. I WAS DETERMINED TO BE SOMEBODY IF IT KILLED ME!

1950, FOREST HILLS, N.Y.: A CHILD OF HARLEM, ALTHEA GIBSON, 23, BREAKS TENNIS' RACE BARRIER, THE FIRST BLACK OF EITHER SEX TO PLAY A MAJOR MATCH!

IN 1957-58, SHE WINS U.S. AND WIMBLEDON SINGLES TITLES.

INSPIRED BY ALTHEA GIBSON, CHIP WILL TIME-TRAVEL TO 1960 TO SEE HER MOTHER'S IDOL, WILMA RUDOLPH -- AND SEE HER MAMA AS WELL...

14 **BREAKING MORE BARRIERS!** 15

FOR MORE ON CHIP TRACER:: www.newseum.org/chiptracer AND www.newsday.com/nie/chip/tracer.htm E-MAIL CHIP: chiptracer@newsday.com MORE ON SPORTS: www.olympics.org AND www.specialolympics.org

Artist: Steve Geiger; Photos: All American Girls Professional League / Grand Rapids Public Library and AP

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Writer: Bill Zimmerman, art director: Ned Levine, writer: Peggy Brown

THE IDOL

CHIP GOES BACK TO 1960 TO WATCH THE OLYMPICS WITH HER MOTHER AND GRANDPARENTS...

MY GRANDPARENTS -- SO YOUNG! -- AND MY MAMA AT AGE 14! **AMAZING...**

MAMA, DO YOU KNOW **WILMA RUDOLPH,** A SICKLY GIRL WITH POLIO, WORE A LEG BRACE?

IMAGINE WHAT THIS 20-YEAR-OLD OVERCOMES TO WIN 3 GOLD MEDALS ...

...EVEN A SPRAINED ANKLE!

WILMA GROWS UP AS ONE OF 22 KIDS! DETERMINED TO FIGHT ILLNESS, SHE EXERCISES HARD, GETTING WHAT SHE CALLS **"THE COMPETITIVE SPIRIT."**

BY AGE 12, SHE GIVES UP THE BRACE, BECOMING A **BASKETBALL STAR!**

I'LL USE MY **CYBER-CLONE ACTIVATOR** TO CLONE WILMA SO SHE CAN TRAVEL WITH ME...

WH-WHAT'S HAPPENING?

WILMA, I'LL EXPLAIN..

HER TENNESSEE STATE COACH, ED TEMPLE, ENCOURAGES HER TRACK CAREER...

WILMA'S HOMETOWN, CLARKSVILLE, TENN., HONORS HER OLYMPIC TRIUMPHS WITH ITS FIRST INTEGRATED EVENT -- EVER!

16 17

WILMA RUDOLPH (1940-1994), KNOWN AS **"THE GAZELLE,"** WAS THE FIRST AMERICAN WOMAN TO WIN 3 TRACK AND FIELD GOLD MEDALS IN ONE OLYMPICS.

Artist: Anthony Castrillo, Photo: AP

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NEXT SUNDAY: **CHIP'S DREAM!**

NEWSDAY'S COMICS ON THE NEWS

CHIP TRACER® CYBERJOURNALIST

TRIUMPH of SPIRIT THE CHRISTOPHER REEVE STORY

EPISODE 1 OF 8: **NEWSDAY PULITZER-PRIZE WINNING REPORTER AND COMPUTER WIZ CHARLEEN "CHIP" TRACER HEADS AN AMAZING NEW EXPERIMENT!**
USING A CYBERSUIT WITH ELECTRONIC EQUIPMENT, CHIP TIME-TRAVELS IN CYBERSPACE TO REPORT, TRANSMIT AND RECORD NEWS EVENTS AS THEY HAPPEN.

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CHIP TRACER
CYBERJOURNALIST
THE MAN WHO PLAYED "SUPERMAN" HAS A SUPER GOAL... TO WALK AGAIN!
TRIUMPH of SPIRIT THE CHRISTOPHER REEVE STORY
Newsday
COMICS ON THE NEWS
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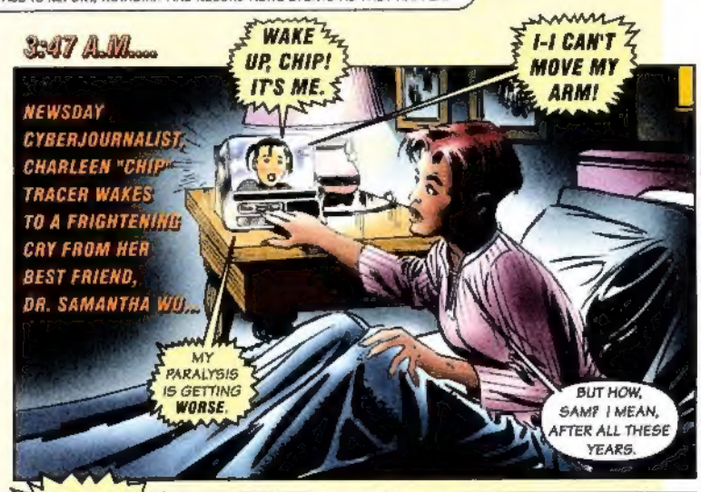
3:47 A.M....
NEWSDAY CYBERJOURNALIST, CHARLEEN "CHIP" TRACER WAKES TO A FRIGHTENING CRY FROM HER BEST FRIEND, DR. SAMANTHA WU...
WAKE UP, CHIP! IT'S ME.
I-I CAN'T MOVE MY ARM!
MY PARALYSIS IS GETTING WORSE.
BUT HOW, SAM? I MEAN, AFTER ALL THESE YEARS.

Cover Artist: Steve Geiger. Photos: AP. Page 1 Artist: Tom Grindberg

THERE'S A CYST* ON MY SPINE! IT'S MAKING MY ARMS NUMB. I COULD LOSE USE OF MY HANDS! I'M SCARED!
I'M HAVING TERRIBLE NIGHTMARES! ABOUT ME... AND ABOUT CHRISTOPHER REEVE!
1

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*CYST: A GROWTH

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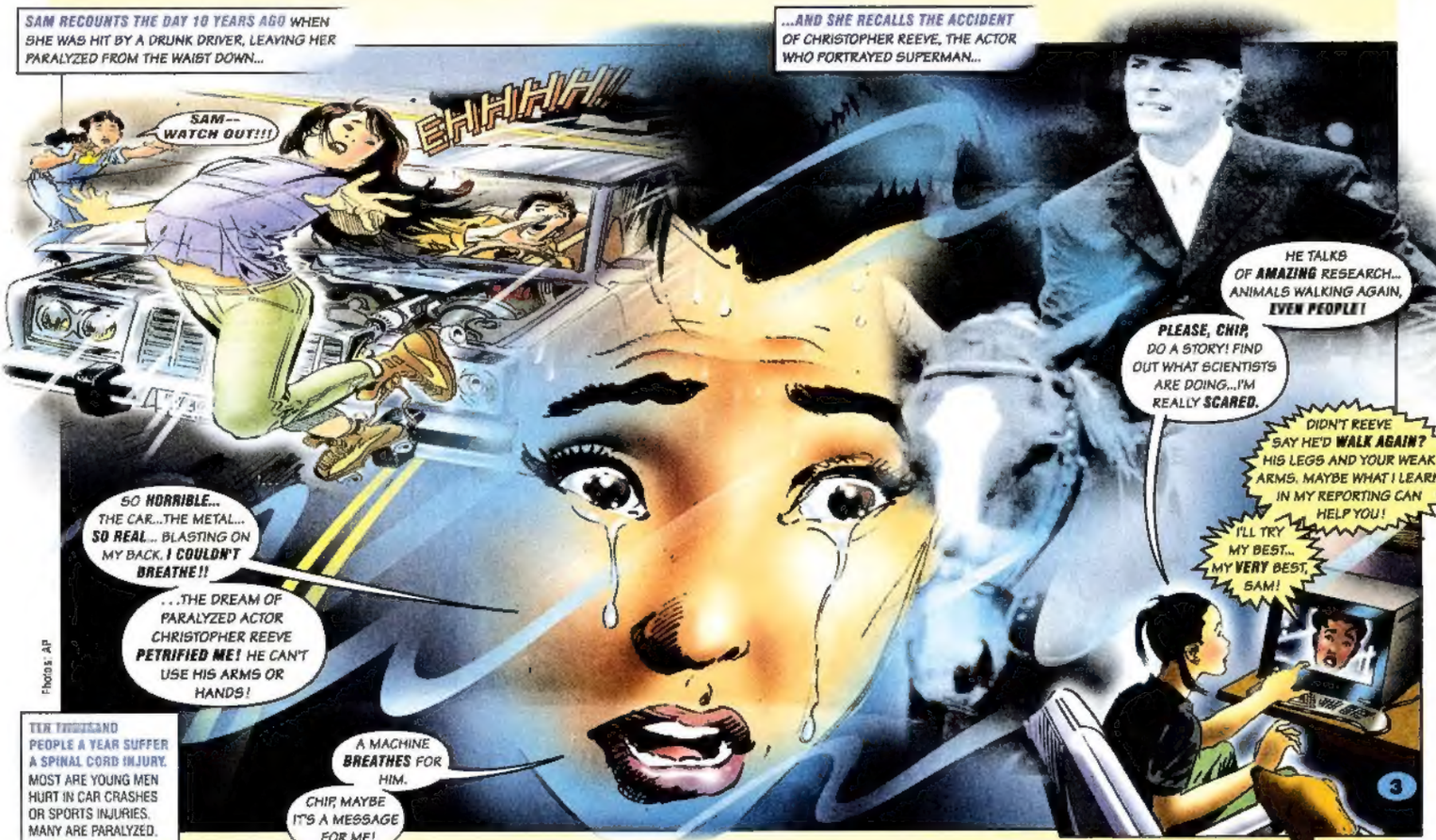
SAM RECOUNTS THE DAY 10 YEARS AGO WHEN SHE WAS HIT BY A DRUNK DRIVER, LEAVING HER PARALYZED FROM THE WAIST DOWN...
...AND SHE RECALLS THE ACCIDENT OF CHRISTOPHER REEVE, THE ACTOR WHO PORTRAYED SUPERMAN...
SAM--WATCH OUT!!!
EHHHH!!
SO HORRIBLE... THE CAR...THE METAL... SO REAL... BLASTING ON MY BACK. I COULDN'T BREATHE!!
...THE DREAM OF PARALYZED ACTOR CHRISTOPHER REEVE PETRIFIED ME! HE CAN'T USE HIS ARMS OR HANDS!
HE TALKS OF AMAZING RESEARCH... ANIMALS WALKING AGAIN, EVEN PEOPLE!
PLEASE, CHIP, DO A STORY! FIND OUT WHAT SCIENTISTS ARE DOING...I'M REALLY SCARED.
DIDN'T REEVE SAY HE'D WALK AGAIN? HIS LEGS AND YOUR WEAK ARMS. MAYBE WHAT I LEARN IN MY REPORTING CAN HELP YOU!
I'LL TRY MY BEST... MY VERY BEST, SAM!
TEN THOUSAND PEOPLE A YEAR SUFFER A SPINAL CORD INJURY. MOST ARE YOUNG MEN HURT IN CAR CRASHES OR SPORTS INJURIES. MANY ARE PARALYZED.
A MACHINE BREATHES FOR HIM.
CHIP, MAYBE IT'S A MESSAGE FOR ME!
3
Photos: AP

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NEXT SUNDAY: GEARING UP!